

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

1. - 24. (Canceled)

25. (Currently Amended) A fluctuation of prices predicting device for market price time-sequence data of an open market~~time-sequence data~~, said device comprising:

holding/preserving means for holding/preserving theoretical models of correlation functions, wherein said models are generated based on a price elasticity and market uncertainties~~of fluctuations for a plurality of real time-sequence data~~;

acquiring means for acquiring sampling data by sampling a local portion of the real time-sequence data;

generating means for generating a real correlation function based on the sampling data;

selecting means for selecting one of the theoretical models that best matches the real correlation function, and judging one of the states regarding the real market price time-sequence data; and

indicating means for indicating a fluctuation of the real market price time-sequence data based on a relation established between the price elasticity and the market uncertainties of the selected theoretical model~~by using a relationship~~

~~established between a first parameter and a second parameter of the selected theoretical model;~~

wherein the theoretical model of the correlation function is generated based on the following:

real time-sequence data having ~~[[an]]~~ a virtual equilibrium point-price that is provided by multiplying ~~the first parameter~~ the market uncertainties by a recent change value of the real market price time-sequence data; and

a value of the real market price time-sequence data after a time Δt that is provided by multiplying the price elasticity ~~second parameter~~ by a difference between a value of the real market price time-sequence data in a current time t and the virtual equilibrium-point price.

26. (Currently Amended) A fluctuation of prices predicting method for market price time-sequence data of an open market ~~time-sequence data~~, said method comprising the steps of:

holding/preserving theoretical models of correlation functions, wherein said models are generated based on a price elasticity and market uncertainties of ~~fluctuations for a plurality of real time-sequence data;~~

acquiring sampling data by sampling a local portion of the real time-sequence data;

generating a real correlation function based on the sampling data;

wherein the theoretical model of the correlation function is generated based on the following:

selecting one of the theoretical models that matches the real correlation function, and judging one of the states regarding the real market price time-sequence data; and

indicating a fluctuation of the real market price time-sequence data based on a relation established between the price elasticity and the market uncertainties of the selected theoretical model ~~by using a relationship established between a first parameter and a second parameter of the selected theoretical model;~~

wherein the theoretical model of the correlation function is generated based on the following:

real time-sequence data having ~~[[an]]~~ a virtual equilibrium point-price that is provided by multiplying ~~the first parameter~~ the market uncertainties by a recent change value of the real market price time-sequence data; and

a value of the real market price time-sequence data after a time Δt that is provided by multiplying the price elasticity ~~second parameter~~ by a difference between a value of the real market price time-sequence data in a current time t and the virtual equilibrium-point price.

27. - 29. (Canceled)

30. (Currently Amended) A fluctuation of prices predicting program for market price time-sequence data of an open market ~~time-sequence data~~ stored in a memory operable to instruct a programmable processor to store data to a recording/reproducing medium, said program having the steps of:

holding/preserving theoretical models of correlation functions, wherein said models are generated based on a price elasticity and market uncertainties of fluctuations for a plurality of real time-sequence data;

acquiring sampling data by sampling a local portion of the real time-sequence data;

generating a real correlation function based on the sampling data;

selecting one of the theoretical models that best matches the real correlation function, and judging one of the states regarding the real market price time-sequence data; and

indicating a fluctuation of the real market price time-sequence data based on a relation established between the price elasticity and the market uncertainties of the selected theoretical model ~~by using a relationship established between a first parameter and a second parameter of the selected theoretical model;~~

wherein the theoretical model of the correlation function is generated based on the following:

real time-sequence data having ~~[[an]]~~ a virtual equilibrium point-price that is provided by multiplying ~~the first parameter~~ the market uncertainties by a recent change value of the real market price time-sequence data; and

a value of the real market price time-sequence data after a time Δt that is provided by multiplying the price elasticity ~~second parameter~~ by a difference between a value of the real market price time-sequence data in a current time t and the virtual equilibrium-point price.